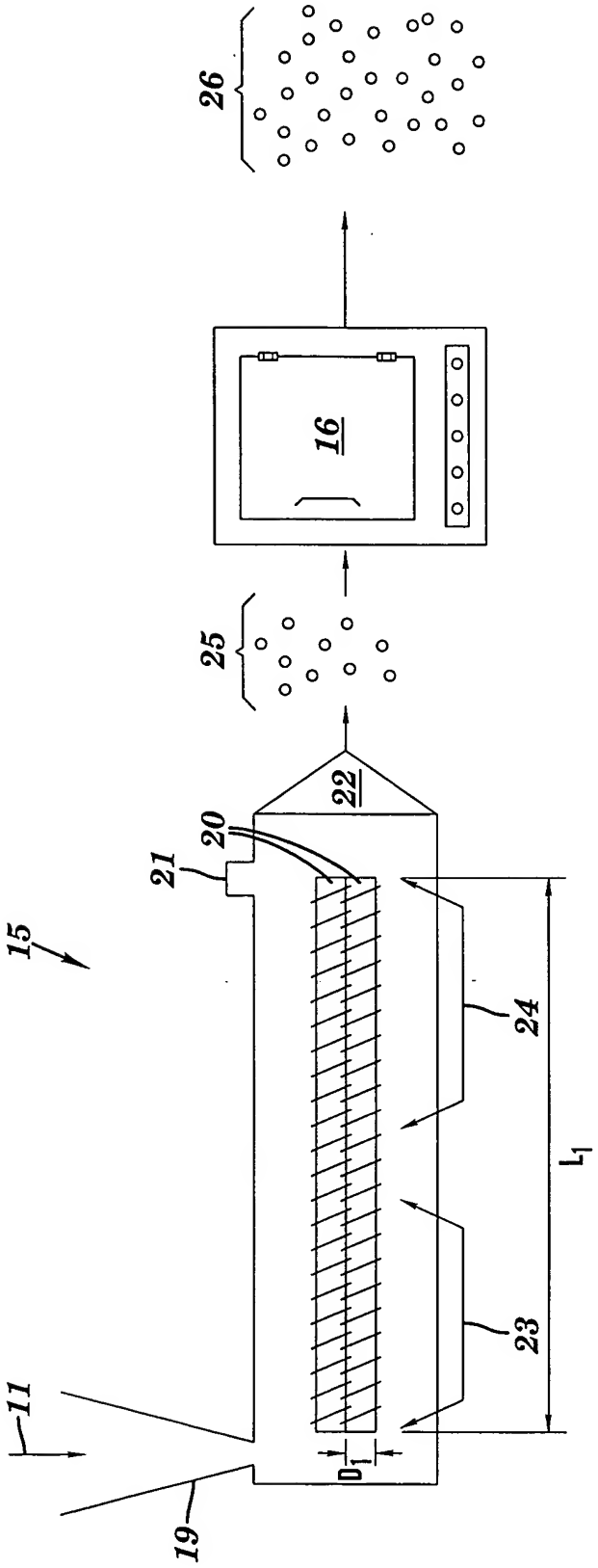

FIG. 1

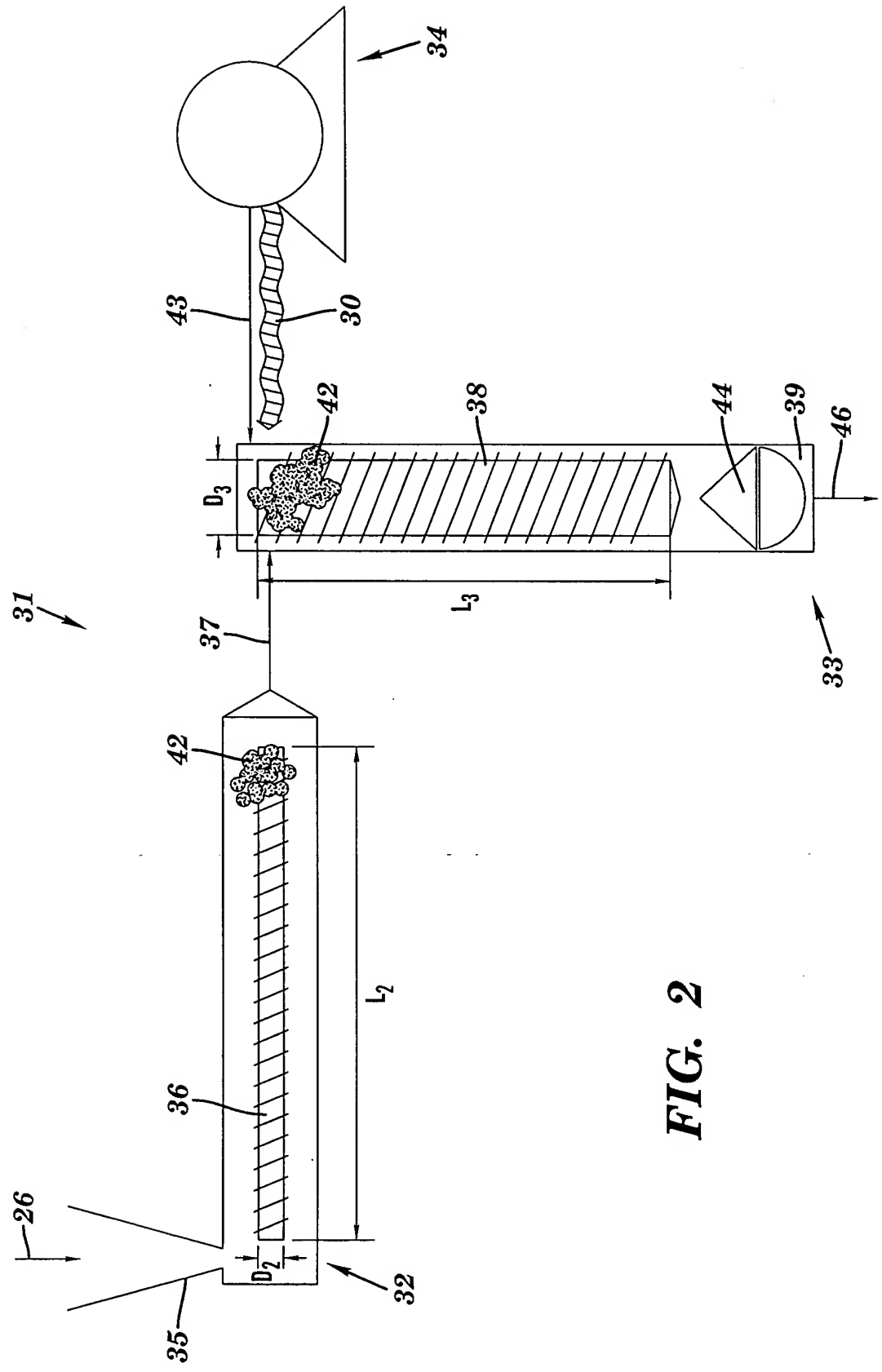

FIG. 2

1	2	3	4	5	6	7	8
Polymer	Sp	$\lvert S_p - S_{scf} \rvert$	SCF	S_{scf}	Clay	Sc	$\lvert S_c - S_{scf} \rvert$
PS	9.2	5.7	CO_2	3.5	Fluoro-2	4.5	1
PS	9.2	5.7	CO_2	3.5	Siloxane	5.4	1.9
HDPE	8	4.5	CO_2	3.5	Fluoro-2	4.5	1
HDPE	8	4.5	CO_2	3.5	Siloxane	5.4	1.9
LDPE	8	4.5	CO_2	3.5	Fluoro-2	4.5	1
LDPE	8	4.5	CO_2	3.5	Siloxane	5.4	1.9
PP	8	4.5	CO_2	3.5	Fluoro-2	4.5	1
PP	8	4.5	CO_2	3.5	Siloxane	5.4	1.9
PVDF	6.6	3.1	CO_2	3.5	Fluoro-2	4.5	1
PVDF	6.6	3.1	CO_2	3.5	Siloxane	5.4	1.9
PS	9.2	3.7	R-12	5.5	Fluoro-1	5.9	0.4
PS	9.2	3.7	R-12	5.5	Fluoro-2	4.5	1
PS	9.2	3.7	R-12	5.5	Siloxane	5.4	0.1
HDPE	8	2.5	R-12	5.5	Fluoro-1	5.9	0.4
HDPE	8	2.5	R-12	5.5	Fluoro-2	4.5	1
HDPE	8	2.5	R-12	5.5	Siloxane	5.4	0.1
LDPE	8	2.5	R-12	5.5	Fluoro-1	5.9	0.4
LDPE	8	2.5	R-12	5.5	Fluoro-2	4.5	1
LDPE	8	2.5	R-12	5.5	Siloxane	5.4	0.1
PP	8	2.5	R-12	5.5	Fluoro-1	5.9	0.4
PP	8	2.5	R-12	5.5	Fluoro-2	4.5	1
PP	8	2.5	R-12	5.5	Siloxane	5.4	0.1
nylon 6	10	0	HCFC, CFC	8	A-Ammonium	8	0
PET	11	0	HCFC, CFC	8	A-Ammonium	8	0
PVA-VOH	11	0	HCFC, CFC	8	A-Ammonium	8	0
POM	11	0	HCFC, CFC	8	A-Ammonium	8	0
PVDC	12	0	HCFC, CFC	8	A-Ammonium	8	0
PVOH	13	0	HCFC, CFC	8	A-Ammonium	8	0
nylon 6, 6	14	0	HCFC, CFC	8	A-Ammonium	8	0
PAN	15	0	HCFC, CFC	8	A-Ammonium	8	0

FIG. 3

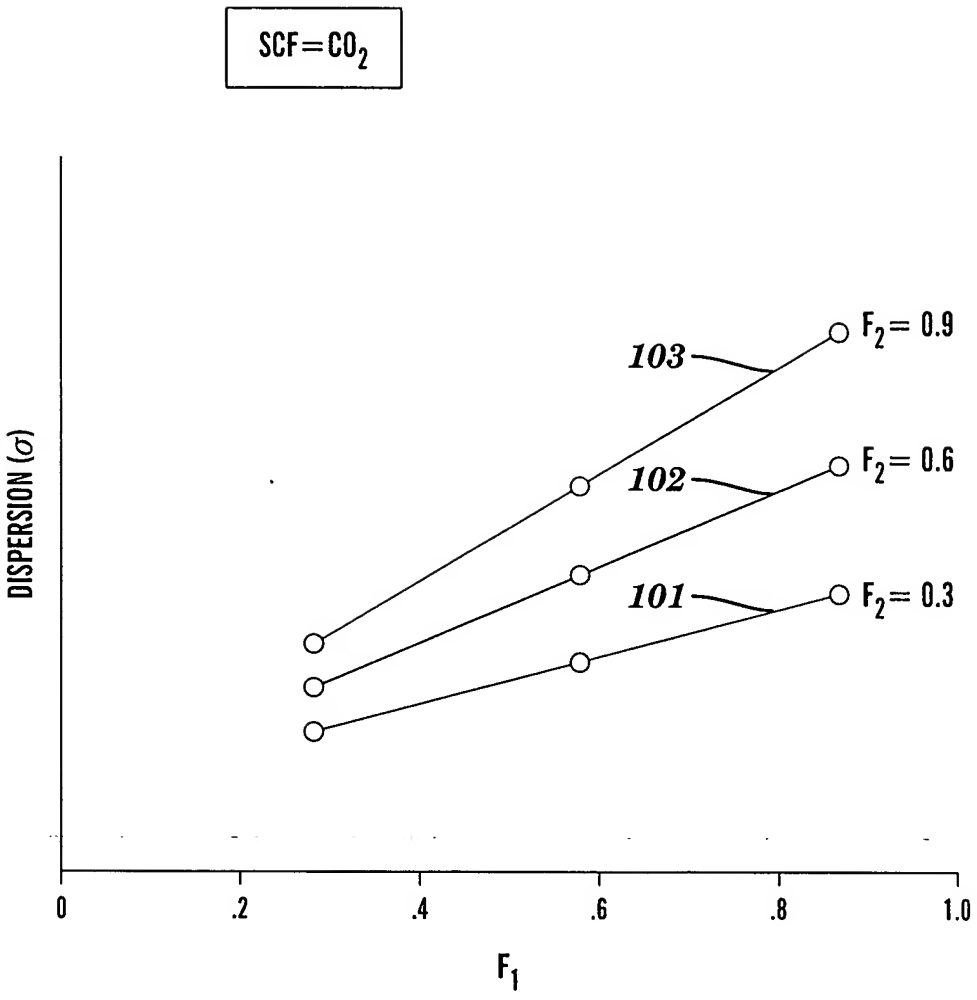

FIG. 4

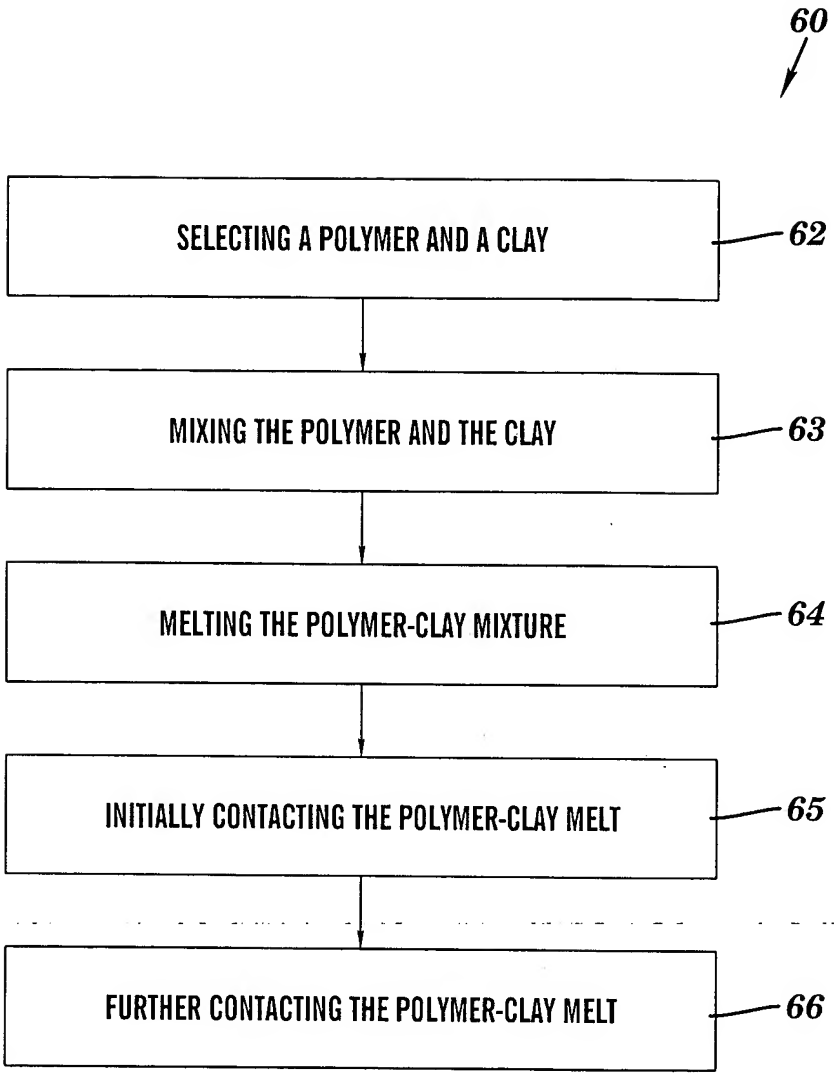
60
SELECTING A POLYMER AND A CLAY
62
MIXING THE POLYMER AND THE CLAY
63
MELTING THE POLYMER-CLAY MIXTURE
64
INITIALLY CONTACTING THE POLYMER-CLAY MELT
65
FURTHER CONTACTING THE POLYMER-CLAY MELT
66

FIG. 5

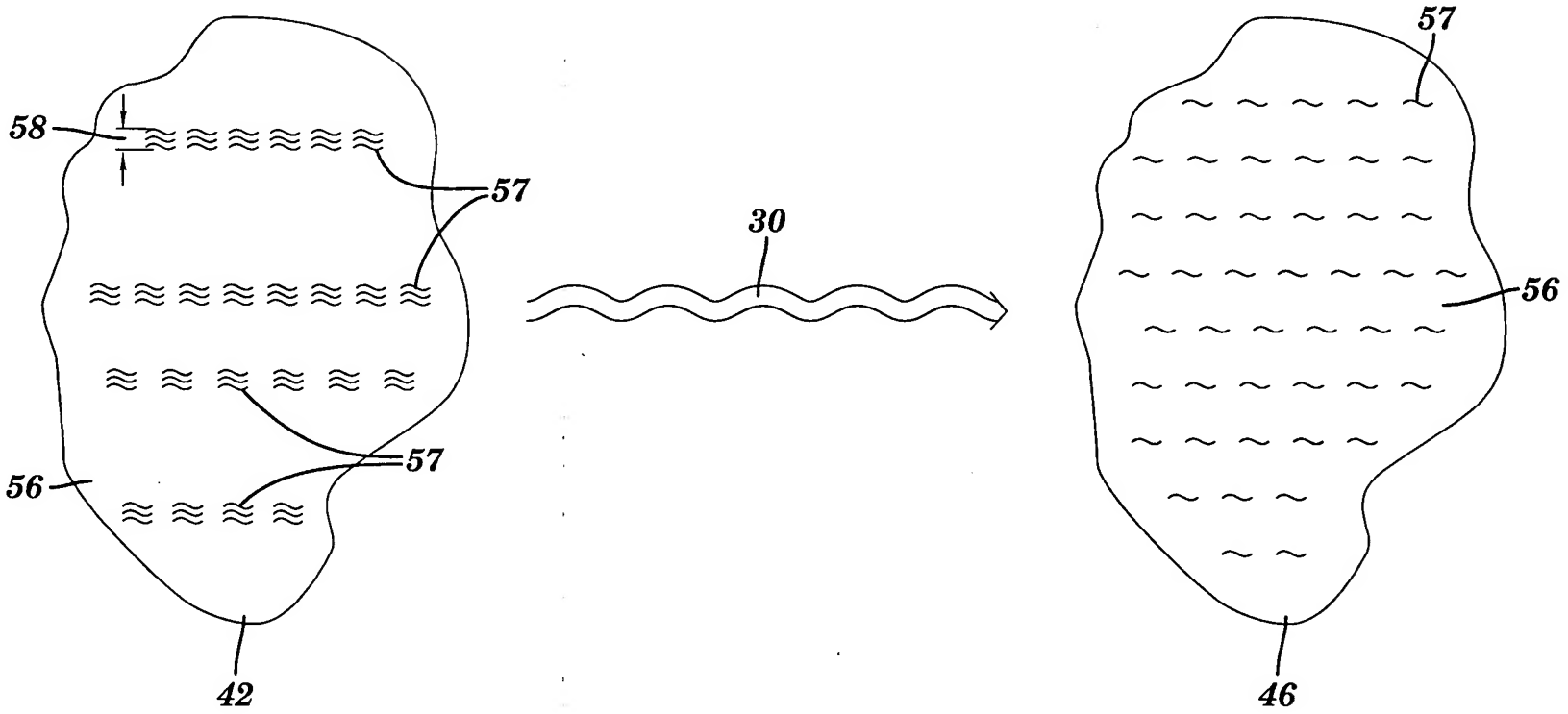

FIG. 6

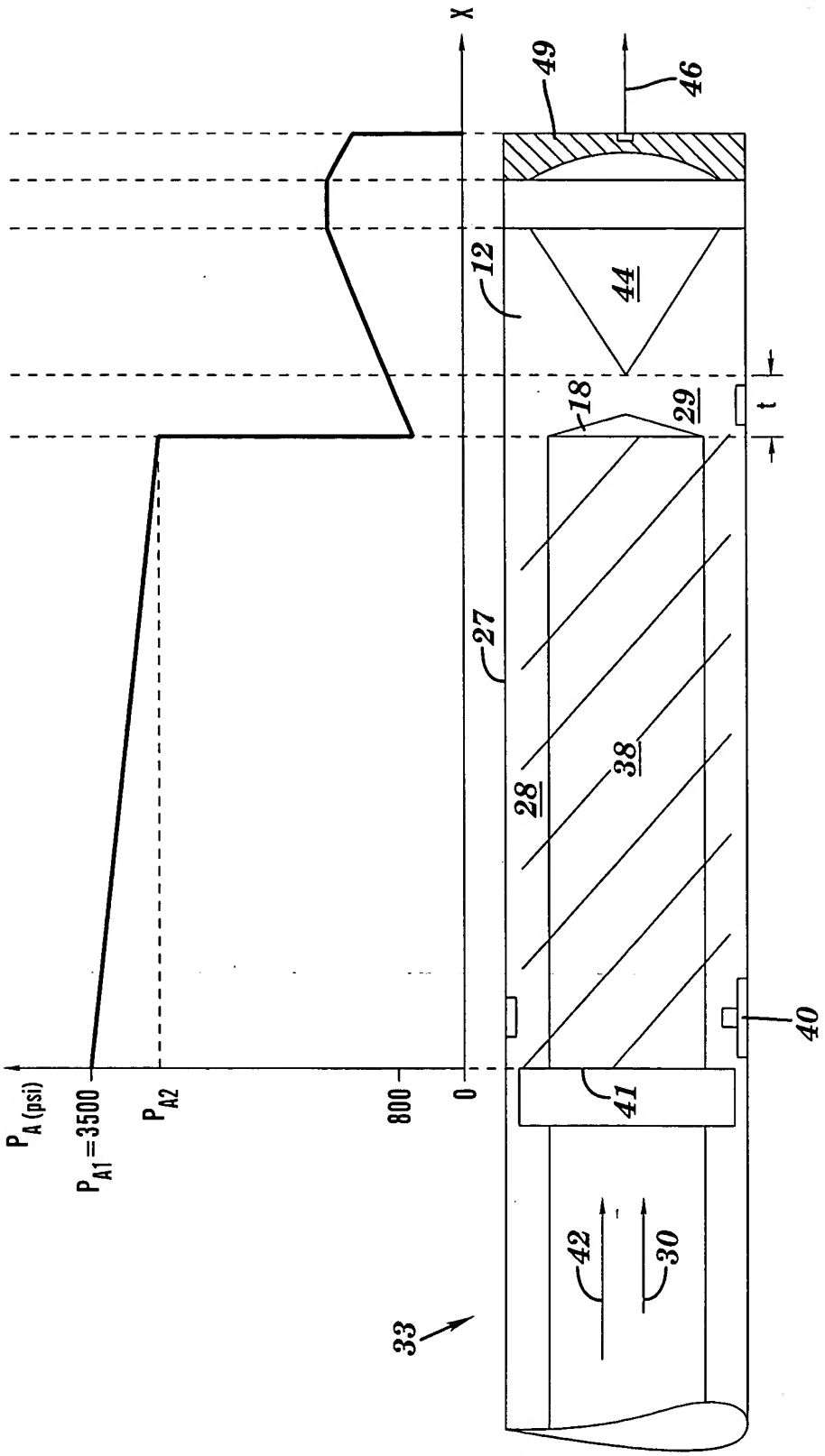

FIG. 7A

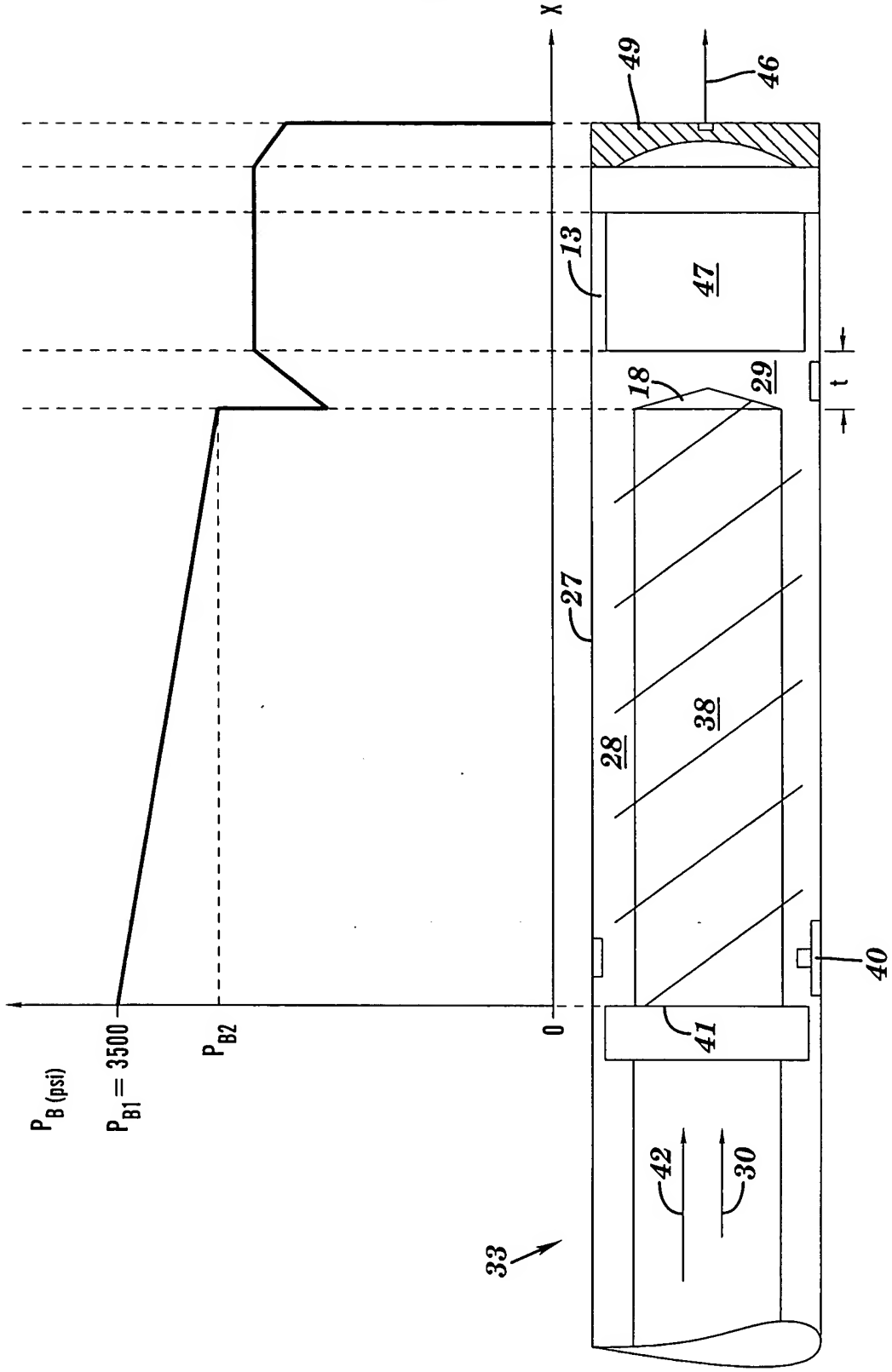

FIG. 7B